

**PROCESS MONITORING AND PARTICLE CHARACTERIZATION
WITH ULTRASONIC BACKSCATTERING**

Inventors: Paul D. Panetta et al.
App. No. New Atty Docket No. 50005-107
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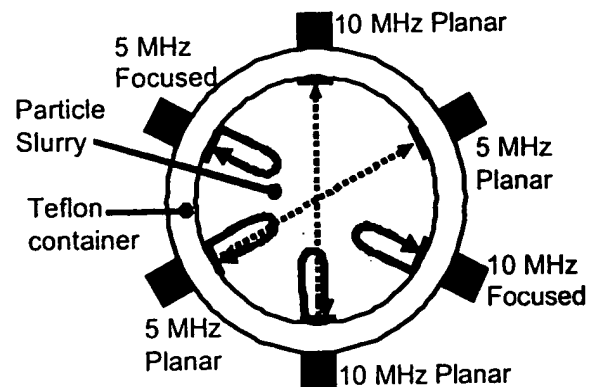


Fig. 1

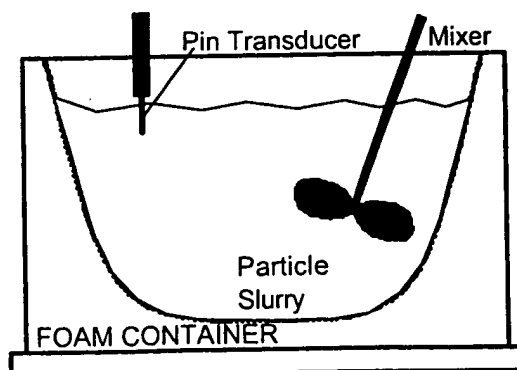


Fig. 2

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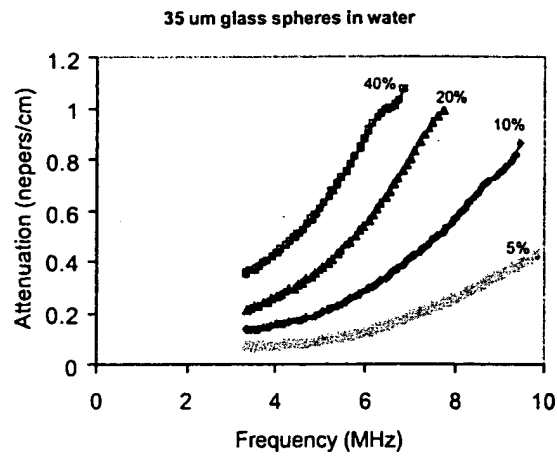


Fig. 3

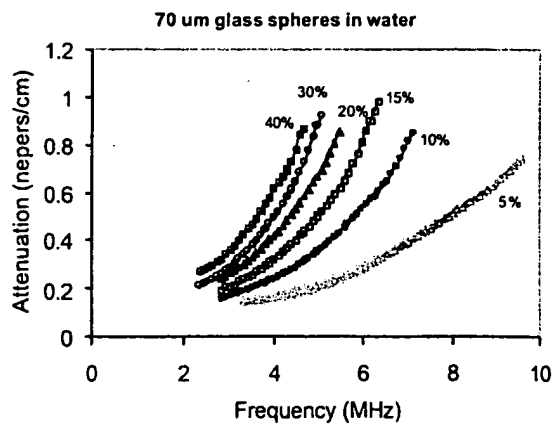


Fig. 4

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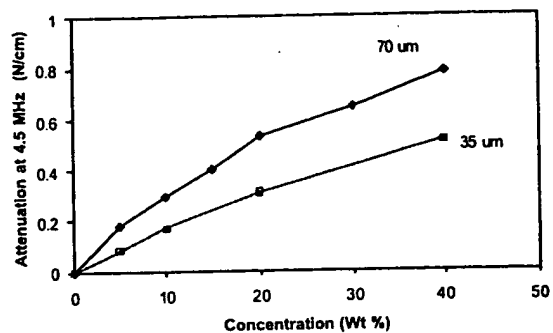


Fig. 5

**Backscattering vs. concentration
35 um, 5 MHz (focused)**

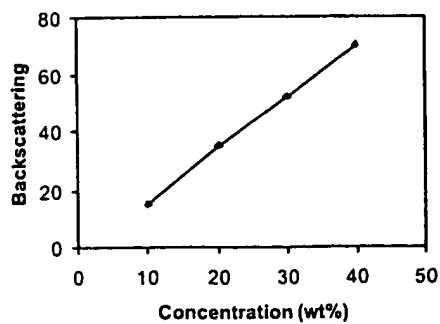


Fig. 6

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**Backscattering vs. concentration
70 μ m, 6 MHz (focused)**

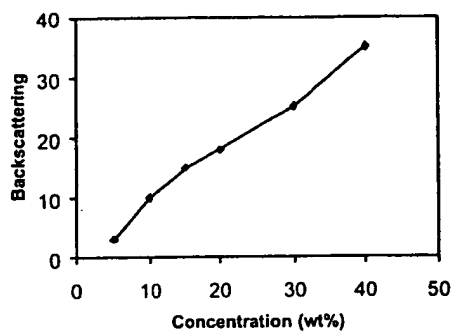


Fig. 7

Attenuation

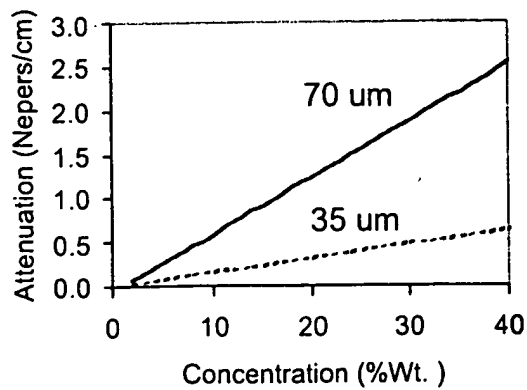


Fig. 8

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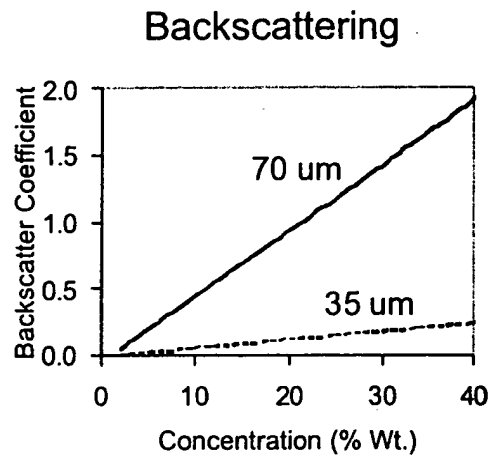


Fig. 9

Diffuse field as a function of particle concentration

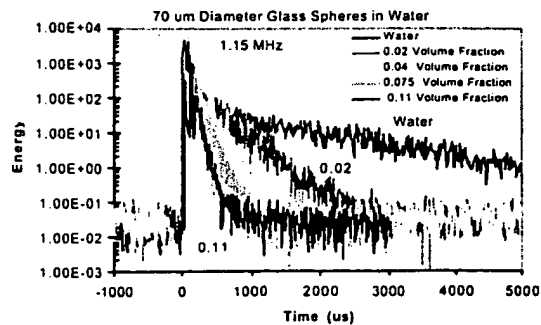


Fig. 10

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Diffuse field decay rate vs. concentration

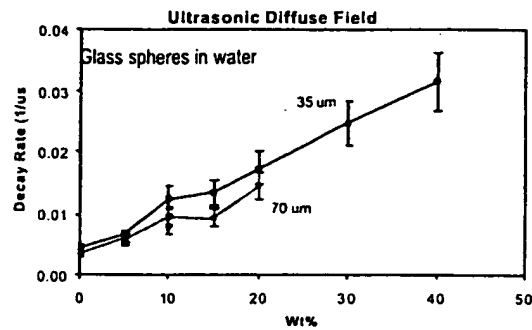


Fig. 11

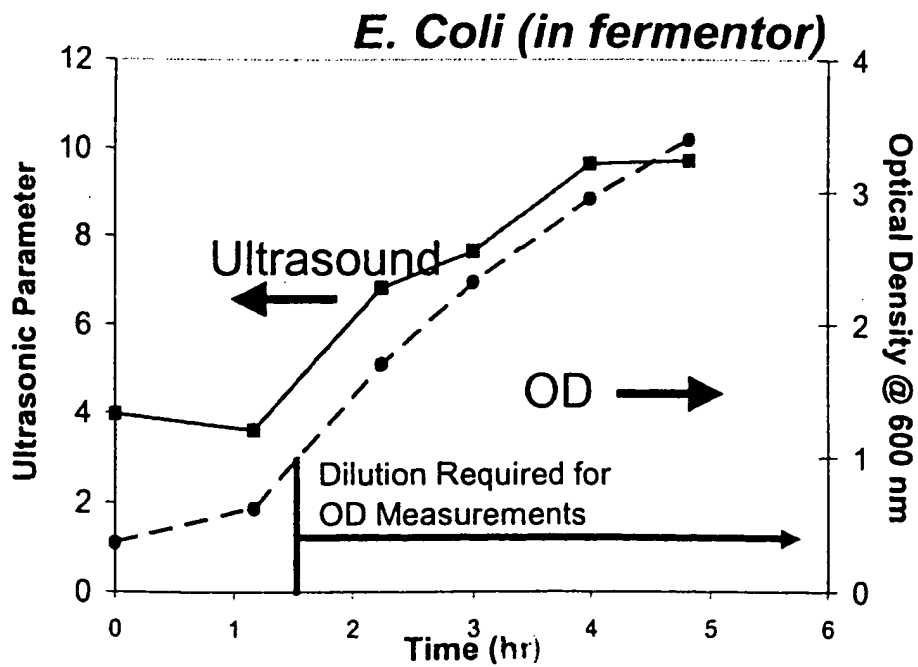


Fig. 12

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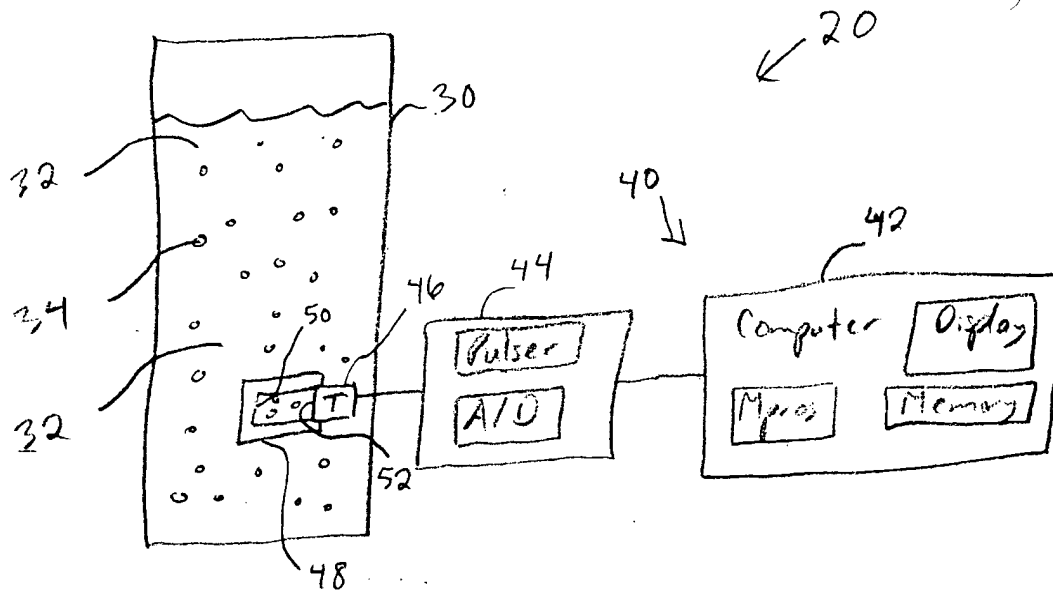


Fig. 13

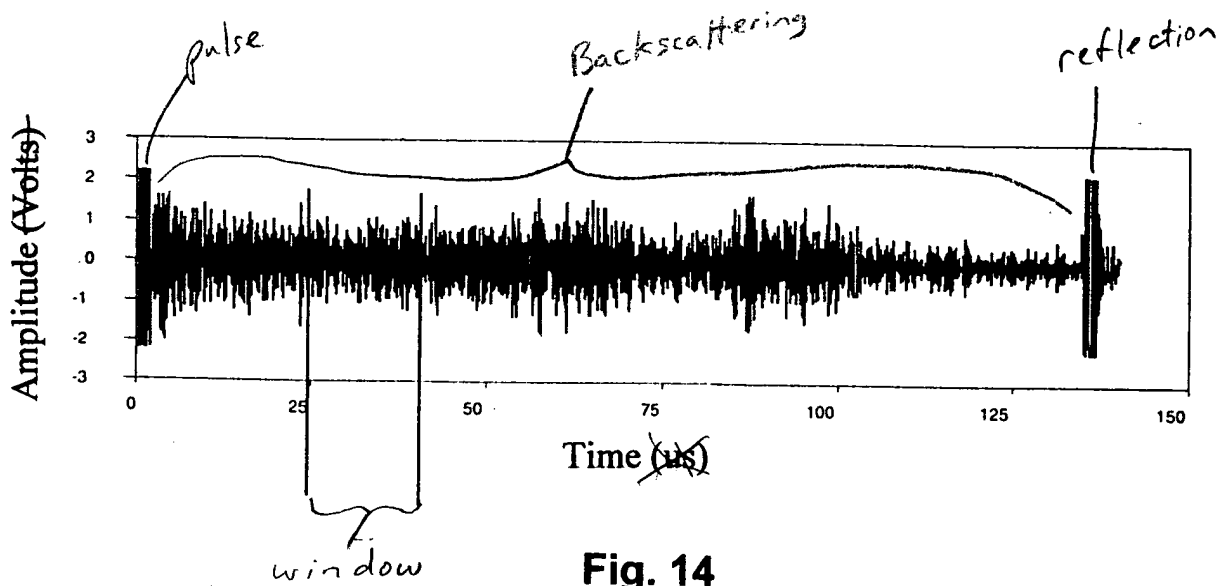


Fig. 14

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Yeast (Lab dilutions)

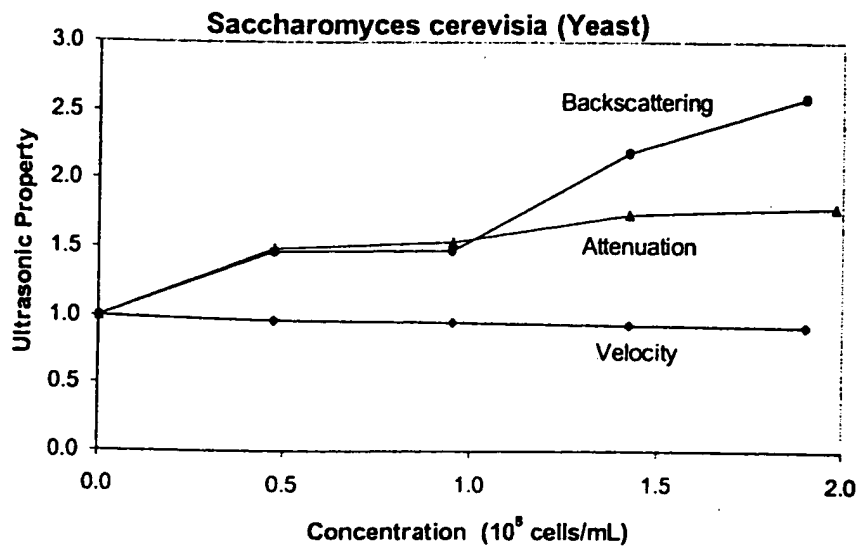


Fig. 15